

# SCIENCE

# And Technology Program



Theme Area: Water Resources

Program Area: Water Conservation - WRRL

Project No.: WR00.11

Project Title: Development of an Improved Algorithm for Canal Control

Principal Investigator: Blair L. Stringam, e-mail: [bstringam@do.usbr.gov](mailto:bstringam@do.usbr.gov)

Co-Principal Investigators: David C. Rogers and Clifford A. Pugh

Abstract: Advancements in data collection, communication, and control equipment have greatly improved water management operations. These improvements have also allowed for the automation of small canal systems which were previously deemed too small for automation equipment. This research project will investigate software control routines that will operate large and small water conveyance systems in an optimal manner. These routines will subsequently be tested, demonstrated, and implemented in the field. A major goal will be to develop general control techniques which will operate a wide range of canals. This will make the technology more useful, economical, and easier to implement on hundreds of existing projects that need to improve water management at low cost.

Related link:  
[www.usbr.gov/wrrl](http://www.usbr.gov/wrrl)